

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original): A system for monitoring activity and comfort of at least one subject, comprising:

at least one data acquisition unit comprising a modular and variable set of sensors comprising a number of sensors, which nature and connection are combined according to needs of the at least one subject under monitoring; and

at least one control unit connected to said at least one data acquisition unit;

wherein said at least one data acquisition unit further comprises devices selected in the group consisting of a microphone, a loudspeaker, a radio receiver, a radio transmitter, a camera and a video transmitter; and

wherein said at least one control unit comprises modules selected in the group consisting of sound modules and audio/video modules.

2. (Original): The system according to claim 1, wherein said set of sensors comprises main sensors selected in the group consisting of movement sensors and cerebral activity sensors, and complementary sensors selected in the group consisting of G sensor, GPS, tilt sensor, infrared sensor, echo sensors, magnetic sensoelectrodes, temperature probe, moisture meter, sound environment sensor and body imaging device.

3. (Currently amended): The system according to ~~anyone of claims~~ claim 1 and 2, wherein said at least one data acquisition unit further comprises a signal-processor receiving data from said set of sensors, and an activity modulator connected to said signal-processor.

4. (Currently amended): The system according to claim 1 ~~anyone of claims 1 to~~ 3, wherein said at least one control unit comprises a communication device and a user interface.

5. (Original): The system according to claim 4, wherein said communication device comprises a signal processor including a memory and processing means.

6. (Currently amended): The system according to claim 4 ~~any one of claims 4 and 5~~, wherein said communication device is connected to a network.

7. (Currently amended): The system according to claim 4 ~~anyone of claims 4 to 6~~, wherein said communication device allows adjusting a transmission power between the data acquisition unit and the control unit.

8. (Currently amended): The system according to claim 1 ~~anyone of claims 1 to 7~~, further comprising a transport unit, which allows said at least one data acquisition unit to keep track of the activity of the at least one subject, and an environment unit which allows keeping track of environmental parameters.

9. (Original): A system for monitoring activity and comfort of at least one subject, comprising:

at least one data acquisition unit comprising a modular and variable set of sensors comprising a number of sensors, which nature and connection are combined according to needs of the at least one subject under monitoring; and at least one control unit connected to said at least one data acquisition unit;

wherein said set of sensors comprises a wing-shaped piezoelectric sensor and sensors selected in the group consisting of G sensor, GPS, tilt sensor, infrared sensor, echo sensors, magnetic sensoelectrodes, temperature probe, moisture meter, sound environment sensor and body imaging device.

10. (Original): The system according to claim 9, wherein said wing-shaped piezoelectric sensor comprises at least one piezo film coated with a flexible, non-allergenic and isolating material.

11. (Currently amended): The system according to claim 9 ~~any one of claims 9 and 10~~, wherein said wing-shaped piezoelectric sensor detects movements selected in the group consisting of the at least one subject's rib cage movements, the at least one subject's

diaphragm movements, the at least one subject's respiratory movements and the at least one subject's heartbeat.

12. (Currently amended): The system according to claim 9 ~~any one of claims 9 to 11~~, wherein said wing-shaped piezoelectric sensor comprises wings which position is able to be calibrated.

13. (Currently amended): The system according to claim 4 ~~anyone of claims 4 to 12~~, wherein said user interface allows a person in charge of the at least one subject to be informed of a state thereof, to order a retroaction according to the state of the at least one subject and to request complementary data selected in the group consisting of sound levels and video images.

14. (Currently amended): The system according to ~~any one of claims 2 and 9~~ anyone of claims 2 to 13, wherein the temperature probe allows measuring a cutaneous temperature of the subject and comparing it to a reference temperature set as a comfort temperature zone.

15. (Original): The system according to claim 14, wherein the comfort temperature zone is updated in relation to characteristics of the at least one subject selected in the group consisting of its age, its size, a proper sensitivity thereof, its state of health.

16. (Currently amended): The system according to anyone of claims 2 and 9 ~~claims 2 to 15~~, wherein the set of sensors is maintained in a close relationship with the at least one subject's body.

17. (Currently amended): The system according to anyone of claims 1 and 9, ~~to 16~~, wherein said at least one control unit receives signals of a state of the at least one subject at intervals and provides alerts.

18. (Original): The system according to claim 17, wherein the alarms are triggered by states selected in the group consisting of awaking of the at least one subject, absence of movement after a predetermined delay and position variations.

19. (Currently amended): The system according to anyone of claims 1 and 9 ~~to 18~~, wherein activity comprises activities selected in the group consisting of rest, physical activity, absence of a movement, absence of respiration, a sleeping state, an awoken state, an active state, an intense active state, an intermediate active state and cerebral activity, and monitoring comprises an assessment of an intensity and of a nature of the activity from a distance.

20. (Currently amended): The system according to any one of claims 1 and 9 ~~to 19~~, wherein said data acquisition unit is integrated in a portable assembly.

21. (Original): A system for monitoring activity and comfort, comprising :
at least one data acquisition unit comprising a modular and variable set of sensors;
and
at least one control unit connected to said at least one data acquisition unit;
wherein said set of sensors comprises at least one sensor selected in the group consisting of a G sensor and a tilt sensor to detect a fall of the subject.

22. (Original): The system according to claim 21, said system being used for monitoring activity levels before and after a falling event, thereby establishing an historical record of data and allowing a post event analysis of movement, said system allowing a remote monitoring wherein a non-response situation triggers an alarm.

23. (Currently amended): A method for monitoring activity and comfort using the system according to anyone of claims 1, 9 and 21 ~~to 22~~.